

TWO NEW SPECIES OF RHYNCAPHYTOPTINAE (ACARI, ERIOPHYOIDEA, DIPTILOMIOPIDAE) FROM SOUTH CHINA

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Abstract Two new species, *Rhyncaphytoptus guangxiensis* sp. nov. infesting *Celtis sinensis* Pers. (Ulmaceae) and *Rhyncaphytoptus fengi* sp. nov. infesting *Acer davidii* France (Aceraceae), are described and illustrated. The species are vagrant on the undersurfaces of host leaves.

Key words Eriophyoidea, Diptilomioipidae, Rhyncaphytoptinae, new species, China.

Two new species of eriophyid mites collected from Guangxi Zhuang Autonomous Region, China, are reported in this paper. Measurements are given in micrometers (μm). Type specimens are deposited in the Agricultural College, Guangxi University, Guangxi Zhuang Autonomous Region, China.

Rhyncaphytoptus guangxiensis sp. nov. (Figs 1–6)

Female. Body fusiform, 187.5–260.0 in length, 71.3–80.0 width, 70.0–78.8 in thickness; light yellow. Gnathosoma 52.5 in length, projecting downward. Prodorsal shield frontal lobe absent, 33–35 in length, 55–60 in width; median and admedian lines complete, submedian line incomplete; shield with one long transverse line at middle and one short transverse line connecting median and admedian lines only. Scapular tubercles on rear margin, 19 apart, scapular seta (*sc*) 25 in length, directing forward. Coxal area smooth, coxae I separated; coxal seta I (*1b*) 9 in length, coxal seta II (*1a*) 15, coxal seta III (*2a*) 25. Leg I 44.5 in length, femur 16, femoral seta (*bv*) 10; genu 5, genual seta (*l''*) 35; tibia 5, tibial seta (*l'*) 13, tarsus 12.5, empodium simple, 7-rayed, solenidion knobbed. Leg II 42 length of femur 14.5, femoral seta 11; genu 4.5, genual seta 15; tibia 5.5, tarsus 12. Opisthosoma with 61 (58–62) smooth annuli on the dorsal, 79 (78–83) microtuberculate annuli on the ventral; the rear annuli bearing spiny microtubercles. Length of lateral seta (*c2*) 11 in length on ventral annulus 16, 1st ventral setae (*d*) 57.5 on ventral annulus 29, 2nd ventral setae (*e*) 50 on ventral annulus 28 and 3rd ventral setae (*f*) 36 on 8th ventral annulus from rear; accessory setae (*h1*) absent. Female genitalia 21.5 in length, 24.5 width, coverflap smooth, genital seta (*3a*) 10 in length.

Male. Body length 195, width 73; genitalia 20 in width, genital seta (*3a*) 9 in length.

Holotype female; paratypes 9 females and 2 males, from *Celtis sinensis* Pers. (Ulmaceae), Lizhou Town, 24 km NE of Tianlin County (24°31'N, 106°24'E),

Guangxi Zhuang Autonomous Region, China, 5 Aug. 2005, collected by WEI Sui-Gai, WANG Guo-Quan, LI De-Wei.

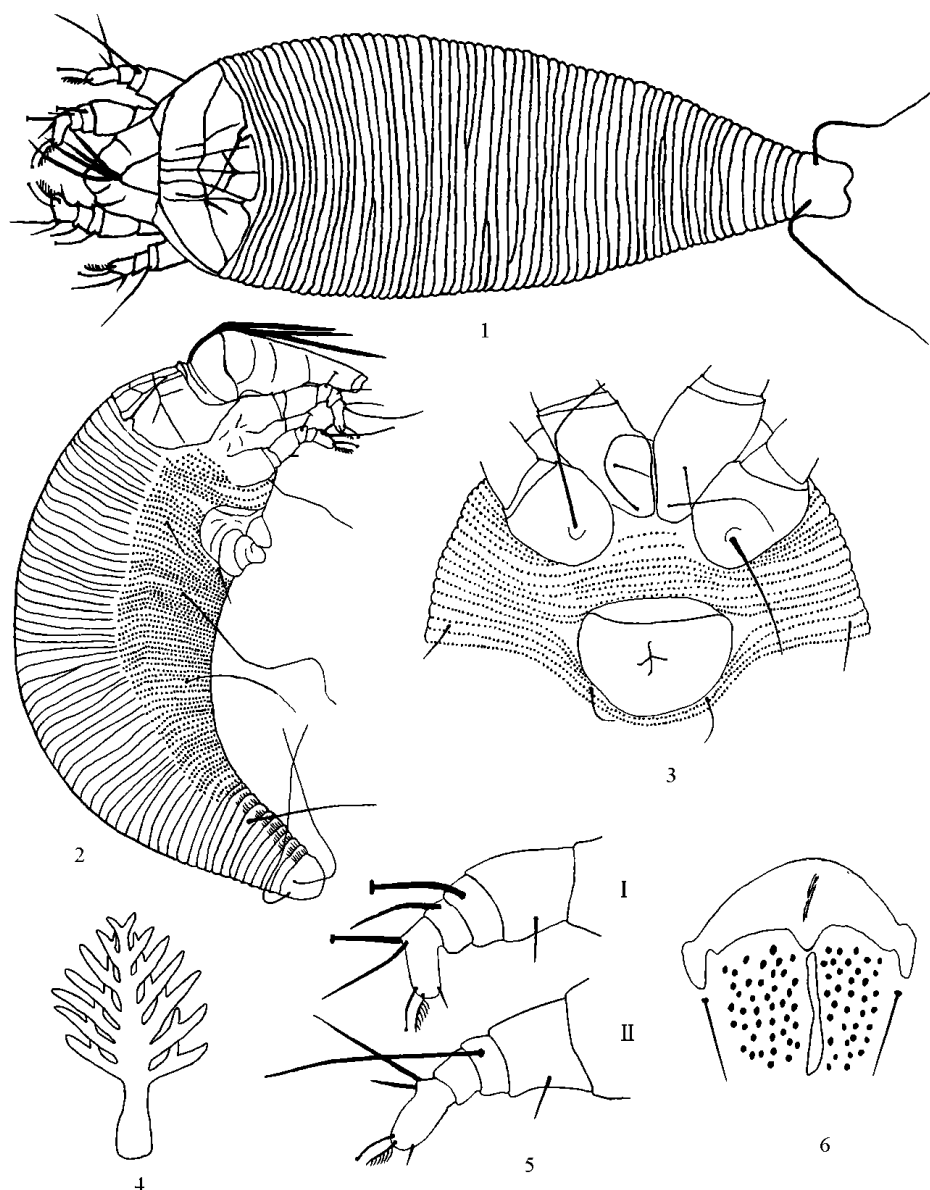
Relation to host. Mites are vagrant on the undersurfaces of leaves, causing no apparent damage.

Etymology. The specific designation is derived from the geographic area where it was collected.

Note. This species is similar to *Rhyncaphytoptus celtis* Kuang et al., 1991, but differs in prodorsal shield frontal lobe absent, coxae I separated, empodium 7-rayed, dorsal opisthosomal annuli smooth.

Rhyncaphytoptus fengi sp. nov. (Figs 7–11)

Female. Body fusiform, 192–250 in length, 87.5–92.5 in width, 83.8–93.8 in thickness; light yellow. Gnathosoma 48.8 in length, projecting downward. Prodorsal shield frontal lobe absent, 28–33 in length, 70–75 in width; median, admedian and submedian lines complete; shield with one long transverse line at middle; all lines forming two rows of cells. Scapular tubercles on rear margin, 20 apart, scapular setae (*sc*) 21.3 in length, directing forward. Coxal area smooth, coxae I with sternal line; coxal seta I (*1b*) 8.8 in length, coxal seta II (*1a*) 12.5, coxal seta III (*2a*) 50. Leg I 43.9 in length, femur 15, femoral setae (*bv*) 15; genu 6.3, genual setae (*l''*) 40; tibia 6.3, tibial seta (*l'*) 10, tarsus 10, empodium simple, 6-rayed, solenidion knobbed. Leg II 36.3 in length, femur 12.5, femoral seta 6.3; genu 5, genual seta 8.8; tibia 5, tarsus 7.5. Opisthosoma: dorsal opisthosoma with 74 (71–75) annuli, smooth, with three longitudinal ridges, of which middorsal ridge short and ending in a furrow; ventrally annuli 89 (88–92), smooth; with spiny microtubercles on rear annuli. Lateral seta (*c2*) 7.5 in length on ventral annulus 21; 1st ventral setae (*d*) 32.5 on ventral annulus 31; 2nd ventral setae (*e*) 12.5 on ventral annulus 49; 3rd ventral setae (*f*) 25 on 8th ventral annulus from rear; accessory setae (*h1*) absent. Female



Figs 1-6. *Rhynaphytoptus guangxiensis* sp. nov. 1. Dorsal mite of female. 2. Lateral mite. 3. Coxigenital area of female. 4. Empodium (enlarged). 5. Leg I, leg II. 6. Male genitalia.

genitalia 22.5 in length, 31.3 in width, coverflap smooth, genital seta (3a) 8.5 in length.

Male. Unknown.

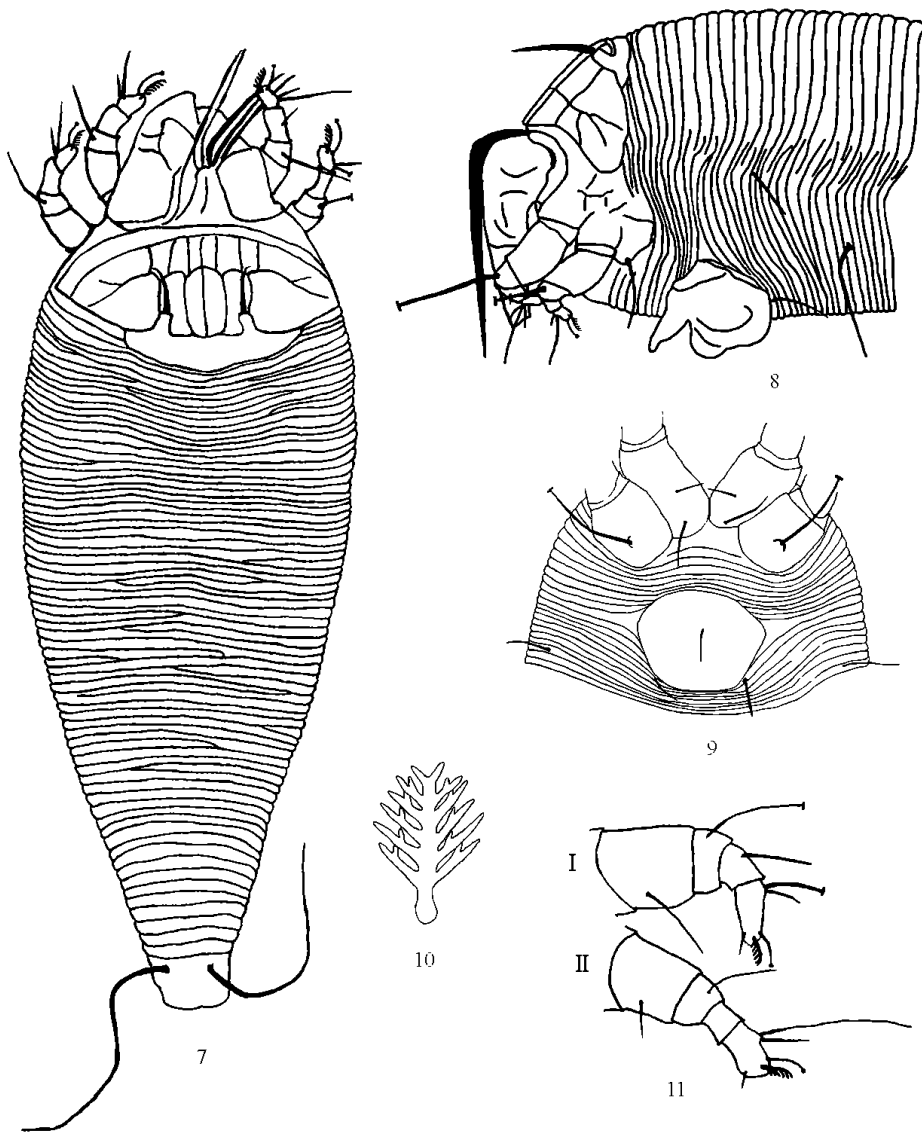
Holotype female; paratypes 10 females, from *Acer davidii* France (Aceraceae), Lizhou Town, 24 km NE of Tianlin County (24°31' N, 106°24' E), Guangxi Zhuang Autonomous Region, China, 5 Aug. 2005, collected by WEI Su-Gai, WANG Guo-Qian, LI De-Wei.

Relation to host. Mites are vagrant on the

undersurfaces of leaves, causing no apparent damage.

Etymology. The specific designation is a patronym in honour of Mr. FENG Yuan Bin, who contribute remarkably researching eriophyid mites of Guangxi Zhuang Autonomous Region, China.

Note. This species is similar to *Rhynaphytoptus lushanensis* Kuang & Zhao, 1987, but differs in prodorsal shield with networks, selenidion knobbed, ventral opisthosomal annuli smooth.



Figs 7-11. *Rhyncaphytoptus fengi* sp. nov. (female). 7. Dorsal mite. 8. Anterior lateral aspect. 9. Coxigenital area. 10. Empodium (enlarged). 11. Leg I, leg II.

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中国南方大嘴瘿螨亚科二新种（蜱螨亚纲，瘿螨总科，羽爪瘿螨科）

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摘 要 记述了大嘴瘿螨属 2 新种：广西大嘴瘿螨 *Rhyncaphytoptus guangxiensis* sp. nov. 和冯氏大嘴瘿螨 *Rhyncaphytoptus fengi* sp. nov.，采自广西田林县利周乡岑王老山。度量单位为 μm 。模式标本保存在广西大学农学院昆虫标本室。

1 广西大嘴瘿螨，新种 *Rhyncaphytoptus guangxiensis* sp. nov. (图 1)

新种与朴大嘴瘿螨 *Rhyncaphytoptus cdtis* Kuang *et al.*, 1991 近似，但新种无前叶突，足 I 基节分离，羽状爪 7 支，大体

关键词 瘿螨总科，羽爪瘿螨科，大嘴瘿螨亚科，新种，中国。
中图分类号 Q959. 226

背环光滑等特征。
正模♀，副模9♀♀, 2 ♂♂。寄主：朴 *Cdtis sinensis* Pers。
2 冯氏大嘴瘿螨，新种 *Rhyncaphytoptus fengi* sp. nov. (图 2)
新种与庐山大嘴瘿螨 *Rhyncaphytoptus lushanensis* Kuang & Zhao, 1987 相似，但新种背盾板背线构成 2 列网室，爪具端球，大体腹环光滑等特征。
正模♀，副模10♀♀。寄主：青榨槭 *Acer davidi* France。